

## Recovery Plan Action Status

**Plan Name:** Recovery Plan *Aristida portoricensis* (Pelos del diablo)

**Plan Status:** Final

**Plan Date:** 16-May-94

**Lead Agency:** USFWS

**Lead Office:** Caribbean Ecological Services Field Office

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Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Pelos del diablo ( <i>Aristida portoricensis</i> )	1	1	Obtain protective status for the privately owned population site	Partially Complete	FY 1995 - FY 1999	FY 2011	U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources	Acquisition: Easement, Acquisition: Management Agreement	Internal Field Assistance, Volunteer	Cost cannot be determined at present due to the possibility of conservation easements or landowner agreements. Additional individuals were recently found on a private property in Sierra Bermeja
Pelos del diablo ( <i>Aristida portoricensis</i> )	2	10	Assess propagule production and dispersal	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Management: Propagation, Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration: 2-4 years
Pelos del diablo ( <i>Aristida portoricensis</i> )	2	11	Evaluate propagule viability and germination requirements	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Propagation	Graduate Student, Internal Field Assistance	Task duration: 2-4 years
Pelos del diablo ( <i>Aristida portoricensis</i> )	2	12	Evaluate requirements for establishment and growth	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Habitat Requirements	Contract, Graduate Student, Internal Field Assistance	Task duration: 2-4 years

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Pelos del diablo (Aristida portoricensis)	2	13	Assess methods of propagation	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Habitat Requirements, Research: Propagation	Graduate Student, Internal Field Assistance	Task duration: 2-4 years
Pelos del diablo (Aristida portoricensis)	2	14	Develop artificial propagation program	Not Started			Botanical Gardens, U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Management: Propagation, Research: Habitat Requirements, Research: Habitat Status, Research: Reintroduction	Internal Field Assistance	Propagation can be incorporated into ongoing programs
Pelos del diablo (Aristida portoricensis)	2	15	Select sites and assess habitat suitability	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Habitat Requirements	Graduate Student, Internal Field Assistance	Task duration: 2-4 years
Pelos del diablo (Aristida portoricensis)	2	16	Assure site protection	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources	Acquisition: Easement, Acquisition: Management Agreement, Other: Regulations	Internal Field Assistance	Task duration: 2-4 years
Pelos del diablo (Aristida portoricensis)	2	17	Introduction of plants	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources	Management: Reintroduction	Internal Field Assistance, Internal Technical Assistance	Task duration: 2-4 years
Pelos del diablo (Aristida portoricensis)	2	18	Determine number of individuals and populations necessary to ensure species' stability and self perpetuation	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Demographic Studies	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	

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Pelos del diablo (Aristida portoricensis)	3	19	Determine what additional actions, if any, are necessary to achieve recovery goals	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources	Research: General	Internal Field Assistance, Internal Technical Assistance, Species Expert	
Pelos del diablo (Aristida portoricensis)	1	2	Develop a management plan, in cooperation with the Soil Conservation Service and the University of Puerto Rico for the Cerro Las Mesas property	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Soil Conservation Service	Management: Planning	Internal Administrative, Internal Field Assistance, Species Expert	No cost anticipated
Pelos del diablo (Aristida portoricensis)	1	3	Monitor known populations	Ongoing Not Current	Prior to FY 1995	FY 2011	U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources, Soil Conservation Service	Research: Population Surveys	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	
Pelos del diablo (Aristida portoricensis)	1	4	Enforce existing Commonwealth and Federal endangered species regulations	Ongoing Current	Prior to FY 1995	FY 2011	U.S. Fish and Wildlife Service, Law Enforcement Division, U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources	Other: Law Enforcement	Internal Administrative	
Pelos del diablo (Aristida portoricensis)	2	5	Educate the public on plant conservation values and regulations	Ongoing Current	Prior to FY 1995	FY 2011	U.S. Fish and Wildlife Service, Endangered Species Division, Puerto Rico Department of Natural and Environmental Resources, USFWS Regional Office 4	Other: Information and Education	Internal Administrative, Volunteer	Species is included in environmental education programs

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Pelos del diablo (Aristida portoricensis)	2	6	Identify and inventory potential sites	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Habitat Requirements	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration: 2-4 years. Cost includes 211 and 212
Pelos del diablo (Aristida portoricensis)	2	7	Characterize sites to determine their suitability as future recovery sites	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Habitat Requirements	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration: 2-4 years
Pelos del diablo (Aristida portoricensis)	2	8	Define habitat requirements	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Habitat Requirements	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration: 2-4 years
Pelos del diablo (Aristida portoricensis)	2	9	Assess periodicity of flowering	Not Started			U.S. Fish and Wildlife Service, Endangered Species Division, Universities, Puerto Rico Department of Natural and Environmental Resources	Research: Propagation	Contract, Graduate Student, Internal Field Assistance, Species Expert, Volunteer	Task duration: 2-4 years. 12K/yr includes 321, 322, 323, and 324